

Welcome to STN International! Enter x:x

LOGINID:ssspta1653rbm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,
STN AnaVist, now available
NEWS 4 AUG 11 STN AnaVist workshops to be held in North America
NEWS 5 AUG 30 CA/Caplus -Increased access to 19th century research documents
NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions
NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 8 OCT 03 MATHDI removed from STN
NEWS 9 OCT 04 CA/Caplus-Canadian Intellectual Property Office (CIPO) added
to core patent offices
NEWS 10 OCT 06 STN AnaVist workshops to be held in North America

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW .CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:07:34 ON 12 OCT 2005

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 15:07:54 ON 12 OCT 2005

74 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view

search error messages that display as 0* with SET DETAIL OFF.

=> proteins p (heating and cooling and cycle)

MISSING OPERATOR 'P (HEATING'

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> proteins p heating and cooling and cycle

25 FILES SEARCHED...

33 FILES SEARCHED...

54 FILES SEARCHED...

72 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STNINDEX

L1 QUE PROTEINS P HEATING AND COOLING AND CYCLE

=> proteins and heating and cooling and cycle

1 FILE AGRICOLA

2 FILE ANABSTR

2 FILE BIOBUSINESS

1 FILE BIOENG

10 FILE BIOSIS

5 FILE BIOTECHABS

5 FILE BIOTECHDS

2 FILE BIOTECHNO

7 FILE CABA

2 FILE CANCERLIT

38 FILE CAPLUS

12 FILE CEN

75 FILE DGENE

27 FILES SEARCHED...

2 FILE DISSABS

1 FILE DRUGU

6 FILE EMBASE

8 FILE ESBIODBASE

1 FILE FEDRIP

3 FILE FROSTI

7 FILE FSTA

26 FILE IFIPAT

2 FILE LIFESCI

6 FILE MEDLINE

8 FILE PASCAL

2 FILE PHIN

43 FILE PROMT

1 FILE RDISCLOSURE

13 FILE SCISEARCH

64 FILES SEARCHED...

1 FILE TOXCENTER

8555 FILE USPATFULL

827 FILE USPAT2

15 FILE WPIDS

15 FILE WPINDEX

33 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STNINDEX

L2 QUE PROTEINS AND HEATING AND COOLING AND CYCLE

=> d rank

F1 8555 USPATFULL

F2 827 USPAT2

F3 75 DGENE

F4 43 PROMT

F5 38 CAPLUS

F6	26	IFIPAT
F7	15	WPIDS
F8	15	WPINDEX
F9	13	SCISEARCH
F10	12	CEN
F11	10	BIOSIS
F12	8	ESBIOBASE
F13	8	PASCAL
F14	7	CABA
F15	7	FSTA
F16	6	EMBASE
F17	6	MEDLINE
F18	5	BIOTECHABS
F19	5	BIOTECHDS
F20	3	FROSTI
F21	2	ANABSTR
F22	2	BIOBUSINESS
F23	2	BIOTECHNO
F24	2	CANCERLIT
F25	2	DISSABS
F26	2	LIFESCI
F27	2	PHIN
F28	1	AGRICOLA
F29	1	BIOENG
F30	1	DRUGU
F31	1	FEDRIP
F32	1	RDISCLOSURE
F33	1	TOXCENTER

=> file caplus prompt biosis scisearch
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.54	3.75

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:11:25 ON 12 OCT 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'PROMT' ENTERED AT 15:11:25 ON 12 OCT 2005
COPYRIGHT (C) 2005 Gale Group. All rights reserved.

FILE 'BIOSIS' ENTERED AT 15:11:25 ON 12 OCT 2005
Copyright (c) 2005 The Thomson Corporation

FILE 'SCISEARCH' ENTERED AT 15:11:25 ON 12 OCT 2005
Copyright (c) 2005 The Thomson Corporation

=> proteins and heating and cooling and cycle
L3 104 PROTEINS AND HEATING AND COOLING AND CYCLE

=> dup remove
ENTER L# LIST OR (END):13
PROCESSING COMPLETED FOR L3
L4 86 DUP REMOVE L3 (18 DUPLICATES REMOVED)

=> d ti 1-25

L4 ANSWER 1 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Trade name directory.

L4 ANSWER 2 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Bioreactor design for mammalian cell cultures: among other things, accurate control of temperature, pH and agitation rate are required for these shear-sensitive cells to metabolize properly. (Feature Report)

L4 ANSWER 3 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI The molecular shuffle: molecular evolution technologies can reduce the cost of goods, deliver intellectual property benefits, and reduce or obviate the need for capital investment. (Biocatalysis)

L4 ANSWER 4 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Formable and settable polymer bone composite and method of production thereof

L4 ANSWER 5 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Wet-fractionation of Phaseolus lunatus seeds: Partial characterization of starch and protein

L4 ANSWER 6 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Starch-free fatty acid complexation in the presence of whey protein

L4 ANSWER 7 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Bulk-micromachined submicroliter-volume PCR chip with very rapid thermal response and low power consumption

L4 ANSWER 8 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

TI Vibrational circular dichroism spectra of protein films: thermal denaturation of bovine serum albumin

L4 ANSWER 9 OF 86 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI A reversible switch for actomyosin-based nanoactuators.

L4 ANSWER 10 OF 86 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 2

TI Studies on egg albumen and whey protein interactions by FT-Raman spectroscopy and rheology.

L4 ANSWER 11 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Trade name directory. (A-O).

L4 ANSWER 12 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New chromatography columns and accessories at the 2003 Pittsburgh Conference, Part II. (Column Watch). (the 54th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy)

L4 ANSWER 13 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Multipurpose fermenter design: critical considerations: a design that accommodates both present and possible future applications can be advantageous to process development and scaleup efforts. (Feature Report).

L4 ANSWER 14 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Aisle by aisle guide. (PITTCON[R] 2003 Bringing Together The Elements of Science).

L4 ANSWER 15 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Flexible processing apparatus for isolating and purifying viruses, soluble **proteins** and peptides from plant sources

L4 ANSWER 16 OF 86 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on

STN

- TI High-pressure homogenisation of raw bovine milk. Effects on fat globule size distribution and microbial inactivation
- L4 ANSWER 17 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
- TI Nutritional and carbohydrate characteristics of wheat and chickpea based weaning foods
- L4 ANSWER 18 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Studies on egg albumen and whey protein interactions by FT-Raman spectroscopy and rheology
- L4 ANSWER 19 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
- TI A differential scanning calorimetry study of wheat **proteins**
- L4 ANSWER 20 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI An overview of the validation approach for moist heat sterilization, Part 1.
- L4 ANSWER 21 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI Specifying starches. (Formulation & Ingredient Challenges). (Starches used for many food applications)
- L4 ANSWER 22 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI Aisle by aisle guide. (Pittcon[R] 2002).
- L4 ANSWER 23 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Some physicochemical properties of jackfruit (Artocarpus heterophyllus Lam) seed flour and starch
- L4 ANSWER 24 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI Product Showcase.
- L4 ANSWER 25 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI 39th Annual R&D 100 Awards. (Cover Story) (Industry Overview)

=> d ti 26-50

- L4 ANSWER 26 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI New Products. (Product Announcement)
- L4 ANSWER 27 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI New Products. (Mettler-Toledo Inc.)
- L4 ANSWER 28 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI New Products. (Product Announcement)
- L4 ANSWER 29 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI Pittcon 2001 Show in Review.
- L4 ANSWER 30 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
- TI Editor's Choice.

L4 ANSWER 31 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Production of maleic anhydride-4-methylene-1,3-dioxolane copolymer in a process consisting of **cooling and heating cycles**

L4 ANSWER 32 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI New Products.

L4 ANSWER 33 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI New Products & Literature. (Product Announcement) (Statistical Data Included)

L4 ANSWER 34 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI Chemical Scroll Pumps Are Ideal for Lab Applications.

L4 ANSWER 35 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI Product Showcase.

L4 ANSWER 36 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI December New Products.

L4 ANSWER 37 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI New Products. (Product Announcement) (Statistical Data Included)

L4 ANSWER 38 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI More liquid ingredients available for poultry use. (Statistical Data Included)

L4 ANSWER 39 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI New Products.

L4 ANSWER 40 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI New Products.

L4 ANSWER 41 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI New Products.

L4 ANSWER 42 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI Pittcon 2000 Show in Review.

L4 ANSWER 43 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI Pittcon 2000 New Products.

L4 ANSWER 44 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI New Products. (pharmaceutical equipment)

L4 ANSWER 45 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN
TI New Products.

L4 ANSWER 46 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.

L4 ANSWER 47 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products. (Brief Article)

L4 ANSWER 48 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5

TI Correlation between the Chaperone-like Activity and Aggregate Size of α -Crystallin with Increasing Temperature

L4 ANSWER 49 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6

TI Temperature-induced changes in the dynamic rheological behavior and size distribution of polymeric **proteins** for gluteins from wheat near-isogenic lines differing in HMW glutenin subunit composition

L4 ANSWER 50 OF 86 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Modification of zein films by incorporation of poly(ethylene glycol)s

=> d ti 50-86

L4 ANSWER 50 OF 86 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Modification of zein films by incorporation of poly(ethylene glycol)s

L4 ANSWER 51 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7

TI Novel biological inhibitors of fouling and scale formation on heat transfer surfaces through genetic engineering

L4 ANSWER 52 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Preparation and characterization of anionic collagen: P(VDF/TrFE) composites. (5th International Conference on Polymer Characterization)

L4 ANSWER 53 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI MATERIALS PROGRESS.

L4 ANSWER 54 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Indoor Air Quality Primer.

L4 ANSWER 55 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Method and apparatus for the purification and detection of nucleic acids and peptides using reversible affinity gel electrophoresis

L4 ANSWER 56 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 8

TI Ultrafast Dynamics of Shock Waves in Polymers and **Proteins**: The Energy Landscape

L4 ANSWER 57 OF 86 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Synthesis and characterization of thermally reversible bioconjugates composed of α -chymotrypsin and poly(N-isopropylacrylamide-co-acrylamido-2-deoxy-D-glucose)

L4 ANSWER 58 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Zinc Fingers Touch Off Opportunity.

L4 ANSWER 59 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Developing Large-Scale Cryopreservation Systems for Biopharmaceutical Products, Part 2

L4 ANSWER 60 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Tracking Down the GMOS

L4 ANSWER 61 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Enhancement of resistant starch (RS3) in amylomaize, barley, field pea, and lentil starches

L4 ANSWER 62 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Effect of temperature history on the freeze-thawing process and activity of LDH formulations

L4 ANSWER 63 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Hierarchical approach to flexible docking.

L4 ANSWER 64 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Isolation and physicochemical characterization of fonio (*Digitaria exilis*) starch

L4 ANSWER 65 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Environmental Monitoring Considerations for Biological Manufacturing

L4 ANSWER 66 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 9

TI Rolling Circle DNA Synthesis: Small Circular Oligonucleotides as Efficient Templates for DNA Polymerases

L4 ANSWER 67 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 10

TI Thermoelectrical analysis of the human skin barrier

L4 ANSWER 68 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Lipid and protein thermotropic transition of porcine stratum corneum by microscopic calorimetry and infrared spectroscopy

L4 ANSWER 69 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI DEVELOPMENT OF A NEW FREEZE-DRYING PROCESS

L4 ANSWER 70 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Influence of cyclic temperature changes on protein precrystalline aggregates

L4 ANSWER 71 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Apparatus and method for amino acid-containing species hydrolysis

L4 ANSWER 72 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Carrageenan As A Product Ingredient

L4 ANSWER 73 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

TI Lincomycin-induced alteration in the contents of chlorophyll-protein complexes of dimorphic maize chloroplasts and its effect on the temperature-induced spectral changes

L4 ANSWER 74 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 11

TI S1-nuclease enhancement of the ethidium bromide binding assay of drug-induced DNA interstrand crosslinking in human brain tumor cells

L4 ANSWER 75 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Product information section. (Clinical Laboratory Reference 1989) (buyers

guide)

- L4 ANSWER 76 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 12
TI Temperature dependent spectral changes of chloroplasts
- L4 ANSWER 77 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Small amplitude oscillatory testing (SAOT). Instrumentation development and application to coagulation of egg albumen, whey protein concentrate and beef wiener emulsion
- L4 ANSWER 78 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 13
TI Oligomerization of intervening sequence RNA molecules in the absence of proteins
- L4 ANSWER 79 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Some aspects of glucose kinetics in the domestic fowl
- L4 ANSWER 80 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Thermal denaturation of ribosomes
- L4 ANSWER 81 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Free amino acids in fermented milks
- L4 ANSWER 82 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Ultra treatment of milk in a plate plant with indirect heating
- L4 ANSWER 83 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Relation of protein conformation to biological activity
- L4 ANSWER 84 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI The properties of thyroglobulin. V. The properties of denatured thyroglobulin
- L4 ANSWER 85 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Degradative studies on peptides and proteins. III. Synthesis of some 2-thiohydantoins as reference compounds
- L4 ANSWER 86 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI X-ray diffraction studies on protein fibers. I. The large fiber-axis period of collagen

=> d ab bib 85, 83, 31

- L4 ANSWER 85 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
AB Glutamic acid γ -Me ester and NH_4SCN in $\text{AcOH-Ac}_2\text{O}$ heated 10 min. at 100° , poured into ice H_2O , the oil extracted with CHCl_3 , the extract washed, concentrated in vacuo, and ligroine (b. $40-60^\circ$) added yielded 1-acetyl-5-(2-methoxycarbonylethyl)-2-thiohydantoin, m. 102° (from CHCl_3 -ligroine). From 5'-oxopyrrolidino(1':2',1:5)-2-thiohydantoin in saturated alc. NH_3 there separated 5-(2-carbamoylethyl)-2-thiohydantoin, m. 189° ; when aqueous NH_3 was used, a mixture of products was obtained. 1-Acetyl-5-(1-acetyl-4-glyoxalinylmethyl)-2-thiohydantoin refluxed 2 hrs. in 1:1 EtOH-10N HCl yielded on cooling 5-(4-glyoxalinylmethyl)-2-thiohydantoin-HCl, m. $285-8^\circ$ (decomposition) (from aqueous EtOH). L-Proline Et ester-HCl in dry Me_2CO shaken with Et_3N , BzNCS in Me_2CO added, the mixture heated 15 min., poured into H_2O , the oil extracted with EtOAc , the solvent removed, the residual oil heated 3 hrs. in EtOH and 3N HCl , the solution concentrated in vacuo, the residue dissolved in Et_2O , the solution washed with NaHCO_3 and H_2O , dried, and the solvent removed yielded pyrrolidino [1':2',1:5]-2-thiohydantoin (I), m. $161-3^\circ$. L-Arginine-HCl and AcNHCS_2Me (II) in aqueous EtOH at pH 8.8 gave α -N-acetylthiocarbamoyl-L-arginine- H_2O (III), darkened above 230° , finally m. 252°

with effervescence. III refluxed 1.5 hrs. in 2N HCl, the solution concentrated in vacuo, the sirup dissolved in EtOH, and Et₂O added gave 5-(3-guanidinopropyl)-2-thiohydantoin-HCl, m. 208-9° (effervescence). Refluxing DL-ornithine-HCl and II in 50% aqueous C₅H₅N and adjusting the pH to 9 with Et₃N gave α-N-acetylthiocarbamoyl-DL-ornithine (IV) (not crystallized). Acid-catalyzed ring closure of IV produced 5-(3-aminopropyl)-2-thiohydantoin-HCl, softening at 180° and m. 210°. ε-N-Benzylloxycarbonyl-L-lysine and NH₄SCN refluxed in AcOH-Ac₂O afforded the oily intermediate 1-acetyl-5-(4-benzylloxycarbonylaminoethyl)-2-thiohydantoin which on brief hydrolysis gave 5-(4-aminobutyl)-2-thiohydantoin-HCl, m. 235-7° (from aqueous Me₂CO). By the procedure used in the synthesis of I, sarcosine Et ester-HCl (V) and BzNCS gave N-benzoylthiocarbamoylsarcosine Et ester (VI), m. 132° (from EtOH). Acid hydrolysis of VI gave 1-methyl-2-thiohydantoin (VII), m. 224-6° (from aqueous EtOH). Poor yields of VII were obtained by heating a mixture of II and V or KCNS and V in EtOH. Cysteic acid and II were heated 24 hrs. at 40° with the pH maintained at 8.5; after C₆H₆ extraction, the aqueous solution was passed

through a Dowex 50 resin in the H⁺ cycle, and the column washed with H₂O; acid hydrolysis of the combined concentrated washings gave 5-sulfomethyl-2-thiohydantoin as white deliquescent crystals. DL-Methionine sulfone and NH₄SCN refluxed in AcOH-Ac₂O gave 1-acetyl-5-(2-methylsulfonyl-ethyl)-2-thiohydantoin (VIII), m. 195.5° (from aqueous EtOH). Acid hydrolysis of VIII produced 5-(2-methylsulfonyl-ethyl)-2-thiohydantoin, softening and darkening from 200° and m. 227-8° (from H₂O). S-Methylcysteine, treated like DL-methionine sulfone, including the hydrolysis by acid, gave 5-methylthiomethyl-2-thiohydantoin, m. 169-70° (from H₂O).

AN 1957:17264 CAPLUS

DN 51:17264

OREF 51:3571b-h

TI Degradative studies on peptides and **proteins**. III. Synthesis of some 2-thiohydantoins as reference compounds

AU Elmore, D. T.; Ogle, J. R.; Toseland, P. A.

CS Univ. Sheffield, UK

SO Journal of the Chemical Society, Abstracts (1956) 192-6

CODEN: JCSAAZ; ISSN: 0590-9791

DT Journal

LA Unavailable

L4 ANSWER 83 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

AB If the temperature of pepsinogen is raised to 70° the loss of susceptibility of pepsinogen to activation to pepsin follows closely the conformational changes as measured by optical rotation and absorption. On **cooling**, the potential pepsin activity and absorption at 244 mμ are restored completely but only 60% of the sp. optical rotation is recovered. The 1st-order rate constant of activation of a 1% pepsinogen solution kept at 60° for 15 min. is $23 \pm 10^{-2} \text{ min.}^{-1}$. In the presence of 1-2M urea, $k = 12 \pm 10^{-2}$, and in 6M, 7 ± 10^{-2} . If the **heating-cooling cycle** is repeated the potential pepsin activity decreases progressively to 75%, k decreases to 10 ± 10^{-2} . The sp. optical rotation always reaches a constant value of -220°. Most of the tyrosine groups and 1/2 of the lysine groups ionize normally; the pK values approach 10.4 if the titrations are carried out in the presence of urea which alters the conformation of the zymogen.

AN 1964:54006 CAPLUS

DN 60:54006

OREF 60:9545e-f

TI Relation of protein conformation to biological activity

AU Perlmann, Gertrude E.

CS Rockefeller Inst., New York, NY

SO Biochemical Journal (1963), 89(1), 45P

CODEN: BIJOAK; ISSN: 0264-6021

DT Journal
LA Unavailable

L4 ANSWER 31 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

AB Maleic anhydride-4-methylene-1,3-dioxolane copolymer is produced by reacting 4-methylene-1,3-dioxolane with excess ($\leq 1\%$ mol) of maleic anhydride to form an equimolar complex, followed by copolymerization in bulk while cooling to $(-4) - (+4)^\circ$. The mixture is kept at this temperature, heated to a temperature $\leq 80 \pm 2^\circ$, then once again cooled and heated. The cycle is repeated at least one time maintaining the cooling to heating time ratio from 1 to 5, and finally distilling the excessive amount of maleic anhydride by heating the mixture in vacuum. The copolymer can be used as a hardener in polymeric compns., varnishes, mastics, as a reagent for synthesis of surfactants, ion-exchange polymers and flocculants. Thus, the synthesized copolymer was hydrolyzed and used as a flocculant in a cottage cheese production line to precipitate whey proteins.

AN 2002:491888 CAPLUS

DN 137:311663

TI Production of maleic anhydride-4-methylene-1,3-dioxolane copolymer in a process consisting of cooling and heating cycles

IN Bagaev, S. I.; Kstenina, E. N.

PA Russia

SO Russ., No pp. given

CODEN: RUXXE7

DT Patent

LA Russian

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI RU 2170239	C2	20010710	RU 1999-119152	19990901
PRAI RU 1999-119152		19990901		

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

37.19

40.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.19

-2.19

FILE 'STNGUIDE' ENTERED AT 15:17:08 ON 12 OCT 2005

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE

AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Oct 7, 2005 (2005)

* * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,
STN AnaVist, now available
NEWS 4 AUG 11 STN AnaVist workshops to be held in North America
NEWS 5 AUG 30 CA/Caplus -Increased access to 19th century research documents
NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions
NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 8 OCT 03 MATHDI removed from STN
NEWS 9 OCT 04 CA/Caplus-Canadian Intellectual Property Office (CIPO) added
to core patent offices
NEWS 10 OCT 06 STN AnaVist workshops to be held in North America

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:09:49 ON 12 OCT 2005

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 10:10:19 ON 12 OCT 2005

74 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> misfolded (w) protein (p) blood

0* FILE ADISNEWS
0* FILE ANTE
0* FILE AQUALINE
0* FILE BIOCOMMERCE
0* FILE BIOENG
3 FILE BIOSIS
1* FILE BIOTECHABS
1* FILE BIOTECHDS
2* FILE BIOTECHNO

17 FILES SEARCHED...

- 7 FILE CAPLUS
- 0* FILE CEABA-VTB
- 0* FILE CIN

23 FILES SEARCHED...

- 1 FILE DGENE

27 FILES SEARCHED...

- 4 FILE EMBASE

33 FILES SEARCHED...

- 2* FILE ESBIODBASE
- 3* FILE FEDRIP
- 0* FILE FOMAD
- 0* FILE FOREGE
- 1* FILE FROSTI
- 0* FILE FSTA
- 1 FILE GENBANK
- 2 FILE IFIPAT
- 0* FILE KOSMET
- 1 FILE LIFESCI
- 5 FILE MEDLINE
- 0* FILE NTIS
- 0* FILE NUTRACEUT
- 0* FILE PASCAL

54 FILES SEARCHED...

- 0* FILE PHARMAML
- 2 FILE PHIN
- 3 FILE PROMT
- 4 FILE SCISEARCH
- 3 FILE TOXCENTER
- 8 FILE USPATFULL
- 1 FILE USPAT2
- 0* FILE WATER
- 1 FILE WPIDS
- 1 FILE WPINDEX

22 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STNINDEX

L1 QUE MISFOLDED (W) PROTEIN (P) BLOOD

=> d rank

F1	8	USPATFULL
F2	7	CAPLUS
F3	5	MEDLINE
F4	4	EMBASE
F5	4	SCISEARCH
F6	3	BIOSIS
F7	3	PROMT
F8	3	TOXCENTER
F9	3*	FEDRIP
F10	2	IFIPAT
F11	2	PHIN
F12	2*	BIOTECHNO
F13	2*	ESBIODBASE
F14	1	DGENE
F15	1	GENBANK
F16	1	LIFESCI
F17	1	USPAT2
F18	1	WPIDS
F19	1	WPINDEX
F20	1*	BIOTECHABS
F21	1*	BIOTECHDS
F22	1*	FROSTI

=> file caplus medline embase scisearch biosis toxcenter		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	10.62	10.83

FILE 'CAPLUS' ENTERED AT 10:21:18 ON 12 OCT 2005
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 10:21:18 ON 12 OCT 2005

FILE 'EMBASE' ENTERED AT 10:21:18 ON 12 OCT 2005
 Copyright (c) 2005 Elsevier B.V. All rights reserved.

FILE 'SCISEARCH' ENTERED AT 10:21:18 ON 12 OCT 2005
 Copyright (c) 2005 The Thomson Corporation

FILE 'BIOSIS' ENTERED AT 10:21:18 ON 12 OCT 2005
 Copyright (c) 2005 The Thomson Corporation

FILE 'TOXCENTER' ENTERED AT 10:21:18 ON 12 OCT 2005
 COPYRIGHT (C) 2005 ACS

=> misfolded (w) protein (p) blood
 L2 26 MISFOLDED (W) PROTEIN (P) BLOOD

=> dup remove
 ENTER L# LIST OR (END):12
 COMMAND INTERRUPTED
 If this message appears repeatedly, please notify the Help Desk.
 Enter "HELP STN" for information on contacting the nearest STN Help
 Desk by telephone or via SEND in the STNMAIL file.

=>

=> misfolded (w) protein (p) blood
 COMMAND INTERRUPTED
 L3 22 MISFOLDED (W) PROTEIN (P) BLOOD
 If this message appears repeatedly, please notify the Help Desk.
 Enter "HELP STN" for information on contacting the nearest STN Help
 Desk by telephone or via SEND in the STNMAIL file.

=> d ti 1-22

L3 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Method of isolation and self-assembly of small protein particles from
 blood and other biological materials

L3 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Protein folding pathology in domestic animals

L3 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Isolation and self-assembly of small particles of **misfolded**
proteins, proteons, from blood using metallic
 nanocluster proteon nucleation centers for diagnostic and therapeutic use

L3 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Distribution of the serine protease HtrA1 in normal human tissues

L3 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Misfolded protein sensor method

L3 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

TI PS-341, a proteasome inhibitor for cancer treatment

L3 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

TI Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis. GRP78/BiP and novel genes

L3 ANSWER 8 OF 22 MEDLINE on STN

TI Protein folding pathology in domestic animals.

L3 ANSWER 9 OF 22 MEDLINE on STN

TI Is mad cow disease caused by a bacteria?.

L3 ANSWER 10 OF 22 MEDLINE on STN

TI Distribution of the serine protease HtrA1 in normal human tissues.

L3 ANSWER 11 OF 22 MEDLINE on STN

TI Erythroid band 3 variants and disease.

L3 ANSWER 12 OF 22 MEDLINE on STN

TI Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis. GRP78/BiP and novel genes.

L3 ANSWER 13 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Is mad cow disease caused by a bacteria?

L3 ANSWER 14 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Distribution of the serine protease HtrA1 in normal human tissues

L3 ANSWER 15 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Erythroid band 3 variants and disease

L3 ANSWER 16 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis - GRP78/BiP and novel genes

L3 ANSWER 17 OF 22 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Is mad cow disease caused by a bacteria?.

L3 ANSWER 18 OF 22 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Distribution of the serine protease HtrA1 in normal human tissues.

L3 ANSWER 19 OF 22 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis.

L3 ANSWER 20 OF 22 TOXCENTER COPYRIGHT 2005 ACS on STN

TI Protein folding pathology in domestic animals

L3 ANSWER 21 OF 22 TOXCENTER COPYRIGHT 2005 ACS on STN

TI Isolation and self-assembly of small particles of **misfolded proteins**, proteons, from **blood** using metallic nanocluster proteon nucleation centers for diagnostic and therapeutic use

L3 ANSWER 22 OF 22 TOXCENTER COPYRIGHT 2005 ACS on STN

TI PS-341, a proteasome inhibitor for cancer treatment

=> d ab bib 21, 15, 5, 2

L3 ANSWER 21 OF 22 TOXCENTER COPYRIGHT 2005 ACS on STN
AB Compns. and methods for the isolation and manipulation of misfolded, or partially misfolded, proteins present in blood and other biol. materials are provided. In one aspect of the invention, the compns., hereinafter termed 'proteons' are comprised of misfolded proteins. Also provided are compns. and methods for the isolation and manipulation of proteon nucleation centers (PNCs) upon which the proteons of the present in blood and other biol. materials form. The PNCs are comprised of metallic nanoclusters. The PNCs of the invention are pro-apoptotic when added to cultured animal cells. Accordingly, pro-apoptotic compns. and methods of their production are also provided. The invention can be used for diagnosis of conformational diseases and congophilic disorders.
AN 2004:102152 TOXCENTER
CP Copyright 2005 ACS
DN CA14020317674K
TI Isolation and self-assembly of small particles of misfolded proteins, proteons, from blood using metallic nanocluster proteon nucleation centers for diagnostic and therapeutic use
AU Vodyanoy, Vitaly J.; Samoylov, Alexandre M.; Pustovyy, Oleg M.
CS ASSIGNEE: Auburn University
PI WO 2004030622 A2 15 Apr 2004
SO (2004) PCT Int. Appl., 45 pp.
CODEN: PIXXD2.
CY UNITED STATES
DT Patent
FS CAPLUS
OS CAPLUS 2004:310955
LA English
ED Entered STN: 20040504
Last Updated on STN: 20051004

L3 ANSWER 15 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AB This review describes some of the naturally occurring band 3 (AEI) variants and their association with disease. Southeast Asian Ovalocytic (SAO) band 3, an inactive and misfolded protein, is probably only maintained in certain populations because it provides protection against the cerebral form of malaria. Many mutations that cause instability of band 3, either at the mRNA or protein level, result in hereditary spherocytosis (HS). Some polymorphisms alter amino acid residues in the extracellular loops of band 3 and are associated with blood group antigens. A truncated form of AEI is expressed in kidney cells and certain AEI mutations are associated with distal renal tubular acidosis (dRTA). The molecular basis of these variants and their effect on the structure and function of band 3 are discussed. The association between band 3 and glycophorin A (GPA) and the structure/function changes of band 3 in the absence of GPA are also described.
AN 2000:462471 SCISEARCH
GA The Genuine Article (R) Number: 326VV
TI Erythroid band 3 variants and disease
AU Bruce L J (Reprint); Tanner M J A
CS Univ Bristol, Dept Biochem, Univ Walk, Bristol BS8 1TD, Avon, England (Reprint); Univ Bristol, Dept Biochem, Bristol BS8 1TD, Avon, England
CYA England
SO BEST PRACTICE & RESEARCH CLINICAL HAEMATOLOGY, (DEC 1999) Vol. 12, No. 4, pp. 637-654.
ISSN: 1521-6926.
PB BAILLIERE TINDALL, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND.
DT General Review; Journal
LA English

REC Reference Count: 148
ED Entered STN: 2000
Last Updated on STN: 2000
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

AB A catalytic conformational sensor method for detecting abnormal proteins and proteinaceous particles. The method is based on the interaction of a peptide fragment or probe with an abnormal proteinaceous particle. The interaction catalyzes transformation of the probe to a predominately beta sheet conformation and allows the probe to bind to the abnormal proteinaceous particle. This in turn, catalyzes propagation of a signal associated with the test sample-bound probe. As a result signals can be propagated even from samples containing very low concns. of abnormal proteinaceous particles. The peptide probes can be designed to bind to a desired peptide sequence or can even be based on dendrimer structure to control further aggregate propagation.

AN 2002:927721 CAPLUS
DN 138:12465
TI Misfolded protein sensor method
IN Orser, Cindy; Grosset, Anne; Davidson, Eugene
PA Arete Associates, USA
SO PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002097444	A2	20021205	WO 2002-US17212	20020530
	WO 2002097444	A3	20031030		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2448981	AA	20021205	CA 2002-2448981	20020530
	EP 1395833	A2	20040310	EP 2002-749544	20020530
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2004536296	T2	20041202	JP 2003-500572	20020530
PRAI	US 2001-295456P	P	20010531		
	WO 2002-US17212	W	20020530		

L3 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

AB A review. Fibrillar proteins form structural elements of cells and the extracellular matrix. Pathol. lesions of fibrillar microanatomical structures, or secondary fibrillar changes in globular proteins are well known. A special group concerns histol. amorphous deposits, amyloid. The major characteristics of amyloid are: apple green birefringence after Congo red staining of histol. sections, and non-branching 7-10 nm thick fibrils on electron microscopy revealing a high content of cross β pleated sheets. About 25 different types of amyloid were characterized. In animals, AA-amyloid is the most frequent type. Other types of amyloid in animals represent: AIAPP (in cats), AApoAI, AApoAII, localized AL-amyloid, amyloid in odontogenic or mammary tumors and amyloid in the brain. In old dogs A β and in sheep APrPsc-amyloid can be encountered. AA-amyloidosis is a systemic disorder with a precursor in blood, acute phase serum amyloid A (SAA). In chronic inflammatory

processes AA-amyloid can be deposited. A rapid crystallization of SAA to amyloid

fibrils on small beta-sheeted fragments, the 'amyloid enhancing factor' (AEF), is known and the AEF was shown to penetrate the enteric barrier. Amyloid fibrils can aggregate from various precursor proteins in vitro in particular at acidic pH and when proteolytic fragments are formed. Mol. chaperones influence this process. Tissue data point to amyloid fibrillogenesis in lysosomes and near cell surfaces. A comparison can be made of the fibrillogenesis in prion diseases and in enhanced AA-amyloidosis. In the reactive form, acute phase SAA is the supply of the precursor protein, whereas in the prion diseases, cell membrane proteins form a structural source. A β -amyloid in brain tissue of aged dogs showing signs of dementia forms a canine counterpart of senile dementia of the Alzheimer type (ccSDAT) in man. **Misfolded proteins** remain potential food hazards. Developments concerning prevention of amyloidogenesis and therapy of amyloid deposits are shortly commented.

AN 2004:928068 CAPLUS

DN 142:4097

TI Protein folding pathology in domestic animals

AU Gruys, Erik

CS Section of Domestic Animal Pathology, Department of Pathobiology, Faculty of Veterinary Medicine, Utrecht University, Utrecht, Neth.

SO Journal of Zhejiang University, Science (2004), 5(10), 1226-1238
CODEN: JZUSFR; ISSN: 1009-3095

PB Zhejiang University Press

DT Journal; General Review

LA English

RE.CNT 132 THERE ARE 132 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT